

means for applying a voltage to the temperature dependent resistor device until it reaches a first temperature, including a first switch connected between a voltage source and a first circuit;

means for determining when the temperature dependent resistor device then cools to a second, lower temperature, including a second switch connected between a voltage source and a second circuit; and

means for timing the period of time it takes the temperature dependent device to change from the first temperature to the second temperature to determine the heat loss rate of the temperature dependent resistor device.

Please amend claim 12 as follows:

12. (Once amended) The air flow sensor of claim 11 in which the means for applying a voltage includes a comparator connected to a first reference resistance leg and a first variable resistance leg including the temperature dependent resistor device, the comparator providing an output signal when the resistance of the temperature dependent resistor device causes the first circuit to balance.

Please amend claim 13 as follows:

13. (Once amended) The air flow sensor of claim 11 in which the means for determining includes a comparator connected to a second reference resistance leg and a second variable resistance leg including the temperature dependent resistor device, the comparator providing an output signal when the resistance of the temperature dependent resistor device causes the second circuit to balance.

Please amend claim 14 as follows:

14. (Once amended) A method of determining the heat transfer rate of a temperature dependent resistor device, the method comprising:

heating the temperature dependent resistor device to a first temperature by applying a first voltage across the temperature dependent resistor device until it reaches a first resistance value;

allowing the temperature dependent resistor device to cool to a second temperature by applying a second, lower voltage across the temperature dependent resistor device until it reaches a second resistance value;

measuring the period of time it takes for the temperature dependent resistor device to cool to the second temperature including monitoring when the temperature dependent device reaches the first resistance value and timing the period it takes to reach the second resistance value; and

calculating the rate of heat transfer of the temperature dependent resistor device based on the measured period of time.

Marked up copies of claims 11- 14 are attached hereto.

Please cancel claims 15-17.

REMARKS

The applicants appreciate the Examiner's thorough examination of the application and